

## **Re-roofing building guide requirements specific to the City of Louisville**

(References for the below: 2012 IRC & IBC/ Louisville Policy)

Permits are **required** on all work, new or re-roofing projects and must be **issued** and **on site** prior to work beginning. (R105.1) Permit cards must be visible from the street. (R105.7/Louisville Policy)

All areas in the City of Louisville are considered **High Wind Areas** and are based on the Colorado Front range Gust Map dated Feb 28, 2006.

All residential neighborhoods are in the **115 mph (3 second gust)** and **100 mph (fastest mile)** wind zone. Due to this design wind speed, the 2012 *International Residential Code* and the 2012 *International Building Code* require asphalt shingles to be tested in accordance with ASTM D3161, Class F or may be tested to ASTM D7158, Class G or H.

Shingles **must** be high wind rated and have at least **6** nails per shingle.

Make sure you include manufacturer, product type, and wind rating in the work description on the permit application. Inspectors will be checking and enforcing the roof shingles with the manufacturer's specifications for installation on bundle wrapper at the time of **mid-roof and final** inspections. Make sure the manufacturer's product wrapper available for these inspections. The shingle bundle wrappers shall be labeled to indicate compliance.

Ladders must be on-site and secure for all inspections.

A **maximum of 1 layer** of any type of roof covering is allowed, **NO OVERLAY**. (R907.3 (4))

Drip Edge: Drip edge will be required on all roof edges, **rakes as well as on eaves**. (IRC & IBC Section R905/Section 1507 respectively)

Step Flashing: Minimum 4" x 4" required – one piece on every row. (R905.2.8.3)

Ice Barrier (aka Ice and Water Barrier): The City of Louisville requires ice barrier on **ALL** shingled roofs. Ice barrier shall extend from the lowest edges of all roof surfaces to a point at least 24 inches inside the exterior wall line of the building. (On Eaves only)(R905.2.7.1)

Underlayment: (For Complete Tear Offs): For roofs with slopes of 4:12 or greater, one layer of underlayment is required. For roofs with slopes between 2:12 and 4:12, two layers of underlayment are required or use ice and water shield. (R905.2.7)

Roofs With Slopes of Less Than 2:12: Asphalt shingles are NOT allowed unless a membrane is installed first. (See Manufacturers recommendations for installation) (IRC Chapter 9)

Replacement of Asphalt Shingles: Most manufacturers and contractors require full replacement as they will not warranty partial replacement, if shingle TYPES are mixed on any level of damage or repair.

### **City of Louisville Policies:**

- One (1) square or less (100 sq ft.) of roof covering repair shall be considered maintenance and will not require a permit. Roof covering repairs over (1) square of roof covering will require a permit.
- Mid-roof and Final inspections are required on all commercial & residential buildings.
- Effective December 15, 2014, any mid-roof inspection which is missed will require a consultation inspection on-site for the inspector to direct the installer/contractor as to the location of the section of roofing which shall be removed to complete the mid-roof inspection. There will also be a \$47 reinspection fee assessed. This fee is required prior to any inspections being scheduled.